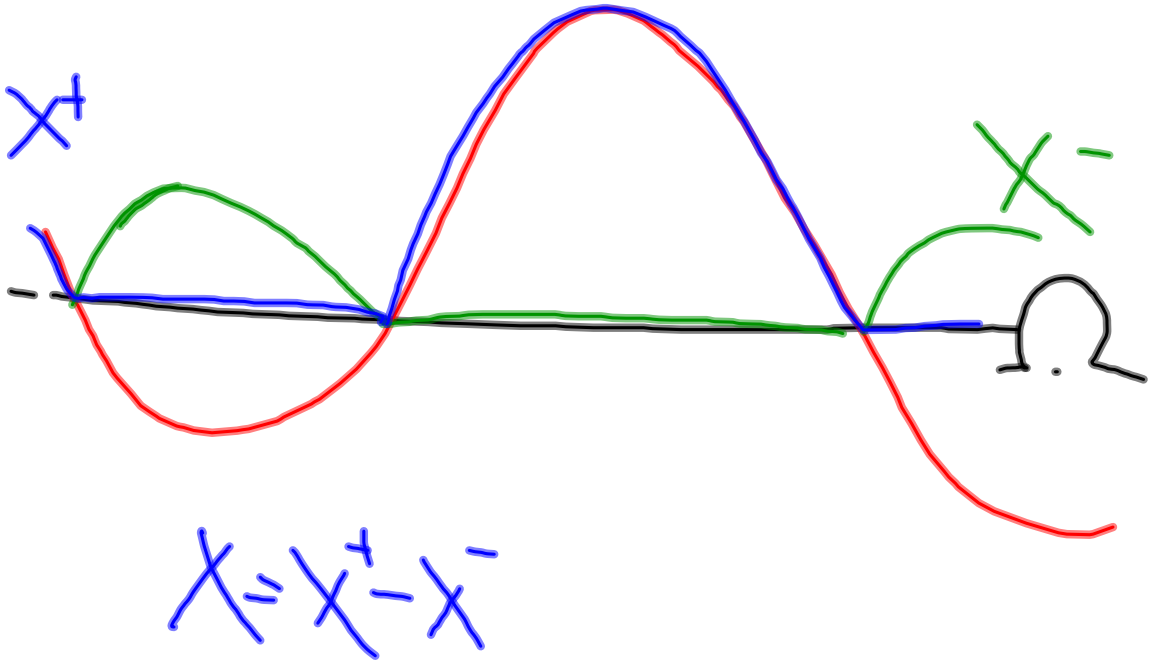
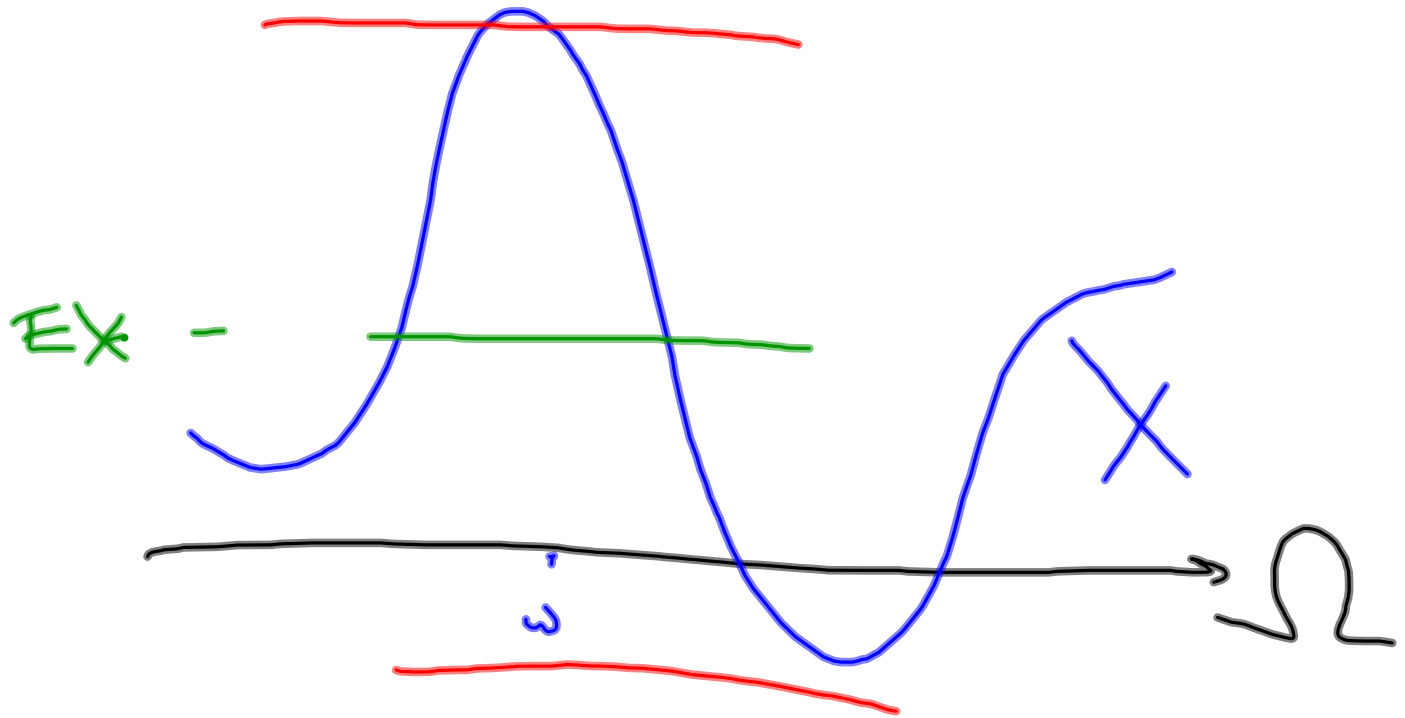
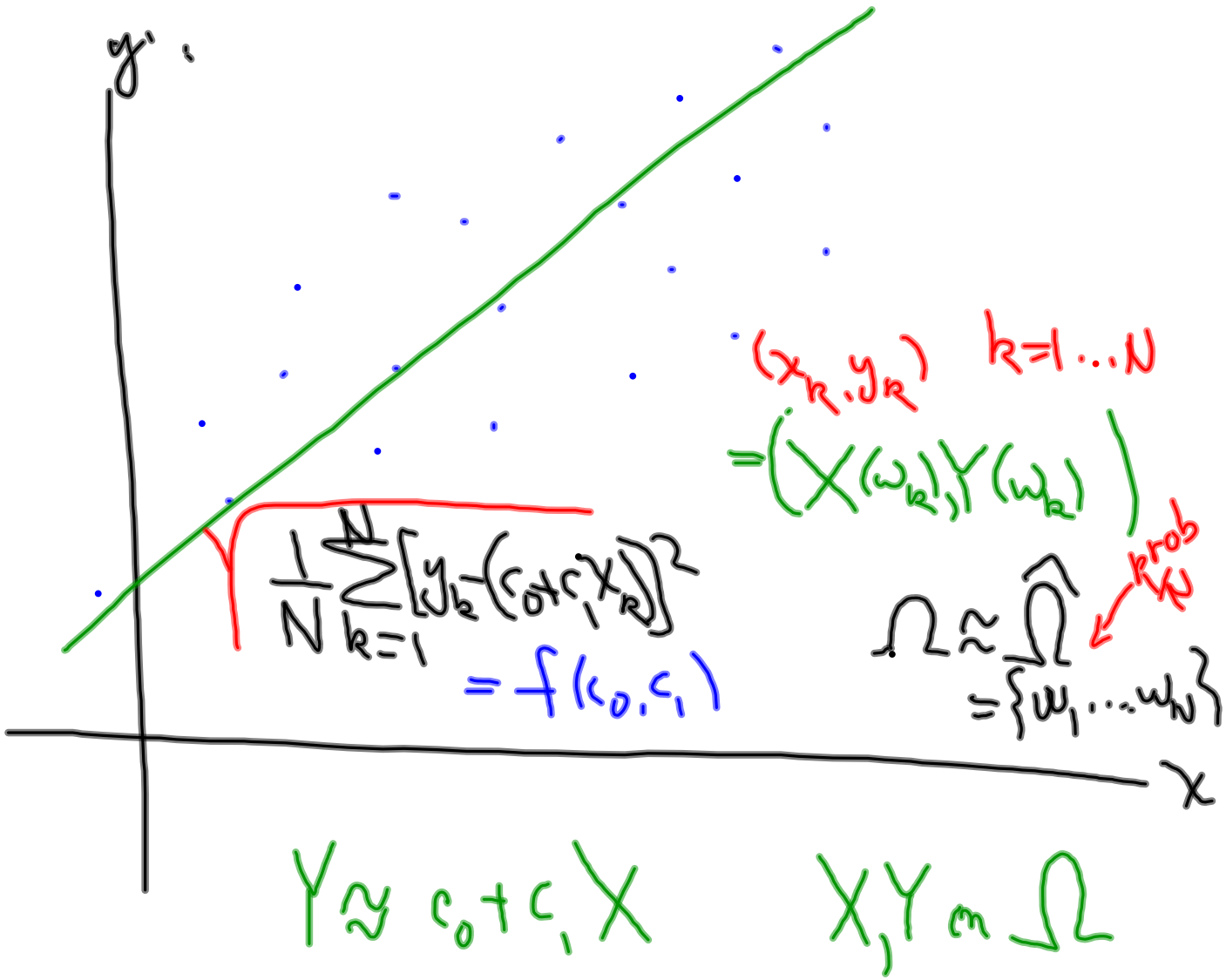
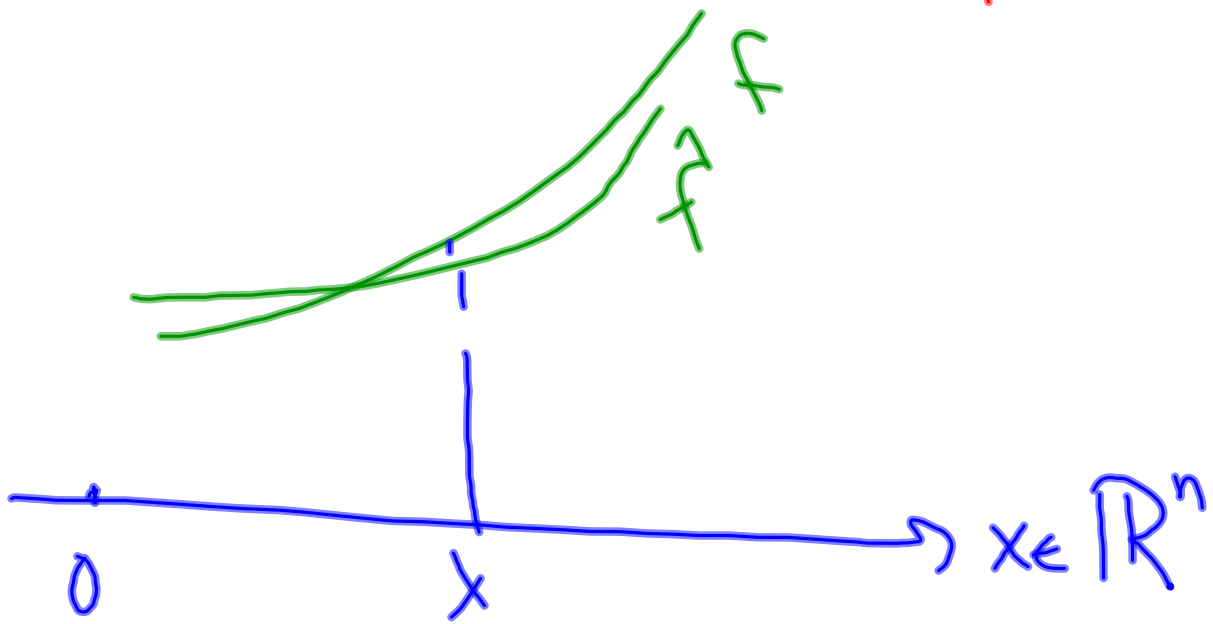

X^+
X^-
$X = X^+ - X^-$

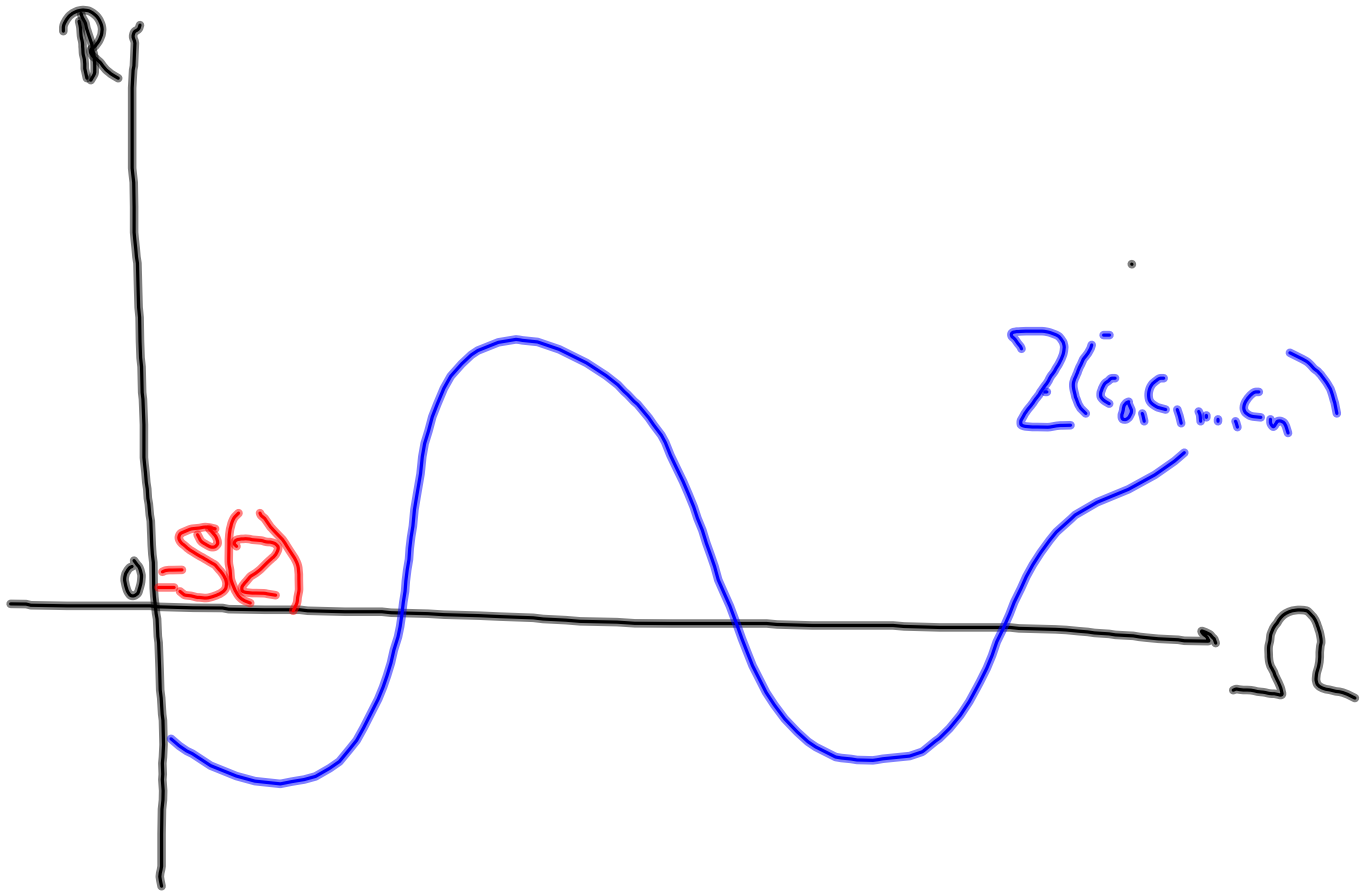

EX
ω
Ω


y
x
(x_k, y_k) $k=1 \dots N$
$= (X(\omega_k), Y(\omega_k))$
prob $\frac{1}{N}$
$\Omega \approx \{\omega_1, \dots, \omega_N\}$
$\frac{1}{N}\sum_{k=1}^{N}[y_k-(c_0+c_1x_k)]^2$
$= f(c_0, c_1)$
$Y \approx c_0 + c_1 X$
X, Y on Ω

$$f(x_1, \ldots, x_m) = \mathcal{R}\left(Y(x_1, \ldots x_n)\right)$$

$$\hat{f}(x_1, \ldots, x_m) = \hat{\mathcal{R}}\left(\hat{Y}(x_1, \ldots, x_m)\right)$$




R
0=S(z)
Ω